

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 23:41:48 ; Search time 342 Seconds  
(without alignments)  
8296.592 Million cell updates/sec

Title: US-09-486-167a-1

Perfect score: 805

Sequence: 1 gccagagggcgagtggaag.....ttgtggttcggaataaaa 805

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2324096 seqs, 1762381658 residues

Total number of hits satisfying chosen parameters: 4648192

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_NA:\*

1: /cgn2\_6/prodata/2/pubpna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/prodata/2/pubpna/PCR\_NEW\_PUB.seq:\*  
3: /cgn2\_6/prodata/2/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/prodata/2/pubpna/US07\_PUBCOMB.seq:\*  
5: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq:\*  
6: /cgn2\_6/prodata/2/pubpna/PCRUS\_PUBCOMB.seq:\*  
7: /cgn2\_6/prodata/2/pubpna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*  
9: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*  
10: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*  
11: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*  
12: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/prodata/2/pubpna/US10\_PUBCOMB.seq:\*  
14: /cgn2\_6/prodata/2/pubpna/US10\_PUBCOMB.seq:\*  
15: /cgn2\_6/prodata/2/pubpna/US10\_PUBCOMB.seq:\*  
16: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq:\*  
17: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq:\*  
18: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	801.8	99.6	2429	US-10-198-846-14054	Sequence 14054, A
2	726	90.2	841	US-10-394-136-3	Sequence 3, Appl1
3	639.6	79.5	681	US-10-264-049-1339	Sequence 1339, Appl1
4	552	68.6	563	US-09-535-459-611	Sequence 611, App
5	536.4	66.6	550	US-09-535-459-609	Sequence 609, App
6	525.4	65.3	535	US-09-535-459-613	Sequence 613, App
7	482	57.9	518	US-09-535-459-616	Sequence 616, App
8	462	55.4	495	US-09-535-459-610	Sequence 610, App
9	439.8	54.6	495	US-09-535-459-616	Sequence 616, App
10	423.6	52.6	550	US-09-535-459-608	Sequence 608, App
11	418	51.9	421	US-10-394-136-204	Sequence 204, App
12	418	51.9	421	US-10-099-926-204	Sequence 204, App
13	418	51.9	421	US-10-033-528-204	Sequence 204, App
14	417.2	51.8	551	US-10-264-049-1299	Sequence 1299, App
15	415.2	51.6	493	US-09-918-995-31713	Sequence 31713, A

16	401.2	49.8	504	13	US-10-394-136-10	Sequence 10, Appl
17	348.6	43.3	452	13	US-10-263-828-29	Sequence 29, Appl
18	338	42.0	353	10	US-09-919-580-760	Sequence 760, Appl
19	336.6	41.8	672	15	US-10-125-237-33	Sequence 33, Appl
20	336.6	41.8	672	15	US-10-105-891-33	Sequence 33, Appl
21	336.6	41.8	1015	15	US-10-198-846-13505	Sequence 13505, A
22	330.8	41.1	560	13	US-10-394-136-24	Sequence 24, Appl
23	325.2	40.4	446	15	US-10-198-846-6923	Sequence 6923, Ap
24	295	36.6	412	11	US-09-918-995-7800	Sequence 7800, Ap
25	278	34.5	607	11	US-09-535-459-607	Sequence 607, App
26	277	34.4	279	11	US-09-535-459-606	Sequence 606, App
27	262.2	32.6	348	11	US-09-535-459-615	Sequence 615, App
28	256	31.8	267	11	US-09-535-459-603	Sequence 603, App
29	249	30.9	429	13	US-10-394-136-7	Sequence 7, Appl1
30	233.8	29.0	420	11	US-09-918-995-5162	Sequence 5162, Ap
31	231.2	28.7	464	13	US-10-394-136-25	Sequence 25, Appl
32	230.8	28.7	376	13	US-10-394-136-11	Sequence 11, Appl
33	225	28.0	376	12	US-10-074-024-537	Sequence 537, App
34	217.4	27.0	270	13	US-10-394-136-12	Sequence 12, Appl
35	216.8	26.7	248	11	US-09-535-459-605	Sequence 605, App
36	214.6	26.7	466	15	US-10-198-846-9502	Sequence 9502, Ap
37	204.2	25.4	262	10	US-09-878-178-776	Sequence 776, App
38	204.2	25.4	262	14	US-10-046-935-776	Sequence 776, App
39	204.2	25.4	262	15	US-10-146-502-776	Sequence 776, App
40	203.8	25.3	273	11	US-09-535-459-612	Sequence 612, App
41	199.2	24.7	237	11	US-09-535-459-602	Sequence 602, Appl
42	195	24.2	246	13	US-10-394-136-13	Sequence 13, Appl
43	188.6	23.4	266	13	US-10-394-136-14	Sequence 14, Appl
44	178.4	22.2	254	13	US-10-394-136-15	Sequence 15, Appl
45	177.2	22.0	182	13	US-10-394-136-9	Sequence 9, Appl1

## ALIGNMENTS

US-10-198-846-14054	RESULT 1
Sequence 14054, Application US/10198846	
Publication No. US2003009974A1	
GENERAL INFORMATION:	
APPLICANT: Lillie, James	
APPLICANT: Xu, Yongyao	
APPLICANT: Wang, Youzhen	
APPLICANT: Steilmann, Kathleen	
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST CANCER	
TITLE OF INVENTION: THERAPY OF BREAST CANCER	
FILE REFERENCE: MRI-049	
CURRENT APPLICATION NUMBER: US/10/198,846	
CURRENT FILING DATE: 2002-07-18	
PRIOR APPLICATION NUMBER: 60/306,220	
PRIOR FILING DATE: 2001-07-18	
NUMBER OF SEQ ID NOS: 14084	
SOFTWARE: FastSeq for Windows Version 4.0	
SEQ ID NO 14054	
LENGTH: 2429	
TYPE: DNA	
ORGANISM: Homo sapiens	
FEATURE:	
NAME/KEY: misc feature	
LOCATION: 1, 2, 3, 478, 490, 563, 608, 2429	
OTHER INFORMATION: n = A,T,C or G	
US-10-198-846-14054	
Query Match	99.6%; Score 801.8; DB 15; Length 2429;
Best Local Similarity	99.6%; Pred. No. 2.7e-235;
Matches 803; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
GC	1 GCCAGAGGCGGAGTGAAGTGCCTGCGGGGCGGAGTATGAGCTAGCTGCGTGGCC 60
DB	1065 GCCAGAGGCGGAGTGAAGTGCCTGCGGGGCGGAGTATGAGCTAGCTGCGTGGCC 1124
GC	61 CTGAGAGCGCTCAGCGGGCTATATATCTGTCGTGGGGCCGGCGGCTCAGTCTGGCGAGCG 120

```

Db      1125 CTGAGACGCTCAGCGGCTATATATCTCTGCTGCGGCGCGCGCTCAGTCTGCGGACGC 1184
QY      121  GCAGCAAGACGCTGAGTGAAGAGAGTGGCGCTCTGGCGGGGTCGCGAGTTTCAGACGA 180
Db      1185 GCAGCAAGACGCTGAGTGAAGAGAGTGGCGCTCTGGCGGGGTCGCGAGTTTCAGACGA 1244
QY      181  GCCGCTGACGCTAGTGGCGCCCAATCAAGTGGAGATGCCATCCAGCAGTGAAGTGT 240
Db      1245 GCCGCTGACGCTAGTGGCGCCCAATCAAGTGGAGATGCCATCCAGCAGTGAAGTGT 1304
QY      241  GAAGGGAGCGCAGGAAACAAGTGAACCTTGGCAGAGTGTTCAGAGGCAAGAGGTGTG 300
Db      1305 GAAGGGAGCGCAGGAAACAAGTGAACCTTGGCAGAGTGTTCAGAGGCAAGAGGTGTG 1364
QY      301  CTGTTTGAAGTCTCGGGGCTTCACCCTGAGATGTTCCAAAGACACACCTGCCAGAGGTTT 360
Db      1365 CTGTTTGAAGTCTCGGGGCTTCACCCTGAGATGTTCCAAAGACACACCTGCCAGAGGTTT 1424
QY      361  GTGAGCAGCGCTAGGCTCTGAAGGCCAAGGAGTCCAGGTGGTGGCTGTCTGAGTGT 420
Db      1425 GTGAGCAGCGCTAGGCTCTGAAGGCCAAGGAGTCCAGGTGGTGGCTGTCTGAGTGT 1484
QY      421  AATGATGCTTTGTGACTGCGAGTGGGCGCGAGCCCAAGGCGAAGGCAAGTTCG 480
Db      1485 AATGATGCTTTGTGACTGCGAGTGGGCGCGAGCCCAAGGCGAAGGCAAGTTCG 1544
QY      481  CTCCTGCTGATCCCACTGGGGGCTTTGGGAAGAGACAGACTATTAATAGATGATTCG 540
Db      1545 CTCCTGCTGATCCCACTGGGGGCTTTGGGAAGAGACAGACTATTAATAGATGATTCG 1604
QY      541  CTGATGTCATCTTTGGGAATCGACGTCGAAGAGTTCATCATGCTGTGATACAGATGC 600
Db      1605 CTGATGTCATCTTTGGGAATCGACGTCGAAGAGTTCATCATGCTGTGATACAGATGC 1664
QY      601  ATAGTGAAGCCCTGAATGTGAAACGAGATGGCAGAGCTCACTGACGCTTGGCAGCC 660
Db      1665 ATAGTGAAGCCCTGAATGTGAAACGAGATGGCAGAGCTCACTGACGCTTGGCAGCC 1724
QY      661  AATATCATCTCAACGCTCTGAGGCGCTGGGCGCAGATTACTCTCCCAACCCCTCCATATC 720
Db      1725 AATATCATCTCAACGCTCTGAGGCGCTGGGCGCAGATTACTCTCCCAACCCCTCCATATC 1784
QY      721  CACCTGCCAGCCCTGTGCTGGGGCCTTGCAGATTGGAATGGCCAGATTTCGCAATA 780
Db      1785 CACCTGCCAGCCCTGTGCTGGGGCCTTGCAGATTGGAATGGCCAGATTTCGCAATA 1844
QY      781  AACACTTGTGTTTGGCGAAAAA 805
Db      1845 AACACTTGTGTTTGGCGAAAAA 1869

```

# RESULT 2 US-10-394-136-3

```

; Sequence 3, Application US/10394136
; Publication No. US20030175787A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Lal, Preeti
; APPLICANT: Kaser, Matthew R.
; TITLE OF INVENTION: VESICLE MEMBRANE PROTEINS
; FILE REFERENCE: PC-0029 CIP
; CURRENT FILING DATE: 2003-03-19
; PRIOR APPLICATION NUMBER: US/10/394,136
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ. ID NOS: 55
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 841
; TYPE: DNA
; ORGANISM: Homo sapiens

```

```

; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030175787A1 743725CB1
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 20, 57, 100, 145, 638, 665, 708, 717, 729, 746, 780, 791, 795
; OTHER INFORMATION: a, t, c, g, or other
US-10-394-136-3

```

```

Query Match          90.2%; Score 726; DB 13; Length 841;
Best Local Similarity 97.7%; Pred. No. 3, 4e-212;
Matches 751; Conservative 0; Mismatches 16; Indels 2; Gaps 2;

```

```

QY      1  GCCAGAGGCGGAGTGAAGTGGCGCTGGGCGGATATGAGTACTGAGCTGTGCGCC 60
Db      75  GCCAGAGGCGGAGTGAAGTGGCGCTGGGCGGATATGAGTACTGAGCTGTGCGCC 134
QY      61  CTGAGACGCTCAGCGGCTATATCTCTGCTGCGGCGCGGCTCAGTCTGCGGACGC 120
Db      135  CTGAGACGCTTGAAGCGGCTATATCTCTGCTGCGGCGCGGCTCAGTCTGCGGACGC 193
QY      121  GCAGCAAGACGCTGAGTGAAGAGTGGCGCTCTGGCGGGGTCCGAGTTTCAGCAGA 180
Db      194  GCAGCAAGACGCTGAGTGAAGAGTGGCGCTCTGGCGGGGTCCGAGTTTCAGCAGA 253
QY      181  GCCGCTGACGCTAGTGGCGCCCAATCAAGTGGAGATGCCATCCAGCAGTGAAGTGT 240
Db      254  GCCGCTGACGCTAGTGGCGCCCAATCAAGTGGAGATGCCATCCAGCAGTGAAGTGT 313
QY      241  GAAGGGAGCGCAGGAAACAAGTGAACCTTGGCAGAGTGTTCAGAGGCAAGAGGTGTG 300
Db      314  GAAGGGAGCGCAGGAAACAAGTGAACCTTGGCAGAGTGTTCAGAGGCAAGAGGTGTG 373
QY      301  CTGTTTGAAGTCTCGGGGCTTCAACCTGATGTTCCAAAGACACACTGCCAGAGTTC 360
Db      374  CTGTTTGAAGTCTCGGGGCTTCAACCTGATGTTCCAAAGACACACTGCCAGAGTTC 433
QY      361  GTGAGCAGCGCTAGGCTCTGAAGGCCAAGGAGTCCAGGTGGTGGCTGTCTGAGTGT 420
Db      434  GTGAGCAGCGCTAGGCTCTGAAGGCCAAGGAGTCCAGGTGGTGGCTGTCTGAGTGT 493
QY      421  AATGATGCTTTGTGACTGCGAGTGGGCGCGAGCCCAAGGCGAAGGCAAGTTCG 480
Db      494  AATGATGCTTTGTGACTGCGAGTGGGCGCGAGCCCAAGGCGAAGGCAAGTTCG 553
QY      481  CTCCTGCTGATCCCACTGGGGGCTTTGGGAAGAGACAGACTTATTAATAGATGATTCG 540
Db      554  CTCCTGCTGATCCCACTGGGGGCTTTGGGAAGAGACAGACTTATTAATAGATGATTCG 613
QY      541  CTGATGTCATCTTTGGGAATCGACGTCGAAGAGTTCATCATGCTGTGATACAGATGC 600
Db      614  CTGATGTCATCTTTGGGAATCGANGTCTCAAGAGTTCATCATGCTGTGATACAGATGC 673
QY      601  ATAGTGAAGCCCTGAATGTGAAACGAGATGGCAGAGCTCACTGACGCTTGGCAGCC 660
Db      674  ATAGTGAAGCCCTGAATGTGAAACGAGATGGCAGAGCTCACTGACGCTTGGCAGCC 723
QY      661  AATATCATCTCAACGCTCTGAGGCGCTGGGCGCAGATTACTCTCCCAACCCCTCCATATC 720
Db      734  AATATCATCTCAACGCTCTGAGGCGCTGGGCGCAGATTACTCTCCCAACCCCTCCATATC 792
QY      721  CACCTGCCAGCCCTGTGCTGGGGCCTTGCAGATTGGAATGGCCAGATTTCGCAATA 769
Db      793  CACCTGCCAGCCCTGTGCTGGGGCCTTGCAGATTGGAATGGCCAGATTTCGCAATA 841

```

## RESULT 3 US-10-264-049-1339

```

; Sequence 1339, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

```

```

FILE REFERENCE: PA133P1
CURRENT APPLICATION NUMBER: US/10/264,049
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/18569
PRIOR FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: US 60/209,467
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 4360
SOFTWARE: Patent In Ver. 3.1
SEQ ID NO 1339
LENGTH: 681
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (237)..(237)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (271)..(271)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (332)..(332)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (429)..(429)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (572)..(572)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (611)..(611)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (676)..(676)
OTHER INFORMATION: n equals a,t,g, or c
US-10-264-049-1339

Query Match          79.5%; Score 639.6; DB 12; Length 681;
Best Local Similarity 97.6%; Pred. No. 9.8e-186;
Matches 656; Conservative 0; Mismatches 15; Indels 1; Gaps 1;

QY 39 GGGACTAGCTGGGCTGTGGCCCTTGAAGCGCTCAGCGGGCTATATATCTGTCGGTGGGC 98
DB 2 GGGACTAGCTGGGCTGTGGCCCTTGAAGCGCTCAGCGGGCTATATATCTGTCGGTGGGC 61
QY 99 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 158
DB 62 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 121
QY 159 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 218
DB 122 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 181
QY 219 CATCCAGAGTGAAGGTGTTTGAAGGGAAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 278
DB 182 CATCCAGAGTGAAGGTGTTTGAAGGGAAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 241
QY 279 GTTCAAGGCGGCAAGAGGCTGTCTGTTTGAAGTCTTCTGCGGCGGCGGCGGCGGCGGCGG 338
DB 242 GTTCAAGGCGGCAAGAGGCTGTCTGTTTGAAGTCTTCTGCGGCGGCGGCGGCGGCGGCGG 301
QY 339 CAAGAACAACCTGCGAGGCTGTGAGAGAGGCTGAGGCTGAGGCGGCGGCGGCGGCGGCGG 398
DB 302 CAAGAACAACCTGCGAGGCTGTGAGAGAGGCTGAGGCTGAGGCGGCGGCGGCGGCGGCGG 351
QY 399 GGTGTGGCTGTCTGAGTGTATATGATGCTTGTGACTGCGGAGTGGGCGGAGCCCA 458

```

```

DB 362 GGTGTGGCTGTCTGAGTGTATATGATGCTTGTGACTGCGGAGTGGGCGGAGCCCA 421
QY 459 CAAGCGGAGGCAAGGTTGCGCTCTGCTGATCCCACTGGGCGCTTTGGAGAGAGC 518
DB 422 CAAGCGGAGGCAAGGTTGCGCTCTGCTGATCCCACTGGGCGCTTTGGAGAGAGC 481
QY 519 AACTTATTACTAGATGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 578
DB 482 AACTTATTACTAGATGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 541
QY 579 CTCGATGCTGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 638
DB 542 CTCGATGCTGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 601
QY 639 CCTCAGCTGAGGCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 697
DB 602 CCTCAGCTGAGGCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 661
QY 698 ACTTCTCCACC 709
DB 662 ACTTCTCCACC 673

RESULT 4
US-09-535-459-611
Sequence 611, Application US/09535459
Publication No. US20030040615A1
GENERAL INFORMATION:
APPLICANT: Seilhamer, Jeffrey J.
APPLICANT: Deleane, Angelo M.
APPLICANT: Stuart, Susan G.
APPLICANT: Stuve, Laura L.
APPLICANT: Mullahy, Sara J.
APPLICANT: Naughton, Rebecca B.
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES
FILE REFERENCE: PD-1014 CIP
CURRENT APPLICATION NUMBER: US/09/535,459
PRIOR FILING DATE: 2000-03-24
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 2170
SOFTWARE: PERL Program
SEQ ID NO 611
LENGTH: 563
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01262379
US-09-535-459-611

Query Match          68.6%; Score 552; DB 11; Length 563;
Best Local Similarity 99.8%; Pred. No. 6.6e-159;
Matches 563; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 85 CTCGTGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 144
DB 1 CTCGTGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60
QY 145 GAGTGGGCTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 204
DB 61 GAGTGGGCTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
QY 205 AAGTGGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 264
DB 121 AAGTGGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
QY 265 AACTGCGAGAGCTGTTCAAGGCGAAGAGGCTGCTGTTTGAAGTCTTCTGCGGCGCTTC 324
DB 181 AACTGCGAGAGCTGTTCAAGGCGAAGAGGCTGCTGTTTGAAGTCTTCTGCGGCGCTTC 240
QY 325 ACCCTGATGTTTCAAGACAACCTGCGAGGCTTGTGAGAGAGGCTGAGGCTCTGAAG 384
DB 241 ACCCTGATGTTTCAAGACAACCTGCGAGGCTTGTGAGAGAGGCTGAGGCTCTGAAG 300

```



Db 301 CCTTACCCCTGGATGTTTCAAGACACACCTGCGAGGGTTTGGAGCGGCTGAGGCTC 360  
Qy 380 TGAAGGCCAAGGAGATCCAGATGTCCTGCTGATGTTAATGATGCTTTGATGCTG 439  
Db 361 TGAAGGCCAAGGAGATCCAGATGTCCTGCTGATGTTAATGATGCTTTGATGCTG 420  
Qy 440 GCGAGTGGGCGCGAGCCCAAGGCGGAAAGCAAGGTTGCTGCTGCTGATGCCACTG 499  
Db 421 GCGAGTGGGCGCGAGCCCAAGGCGGAAAGCAAGGTTGCTGCTGCTGATGCCACTG 480  
Qy 500 GCGGCTTTGGGAAGAGACAGACTTATTCTAGATATTTCGCTGCTGCTGCTGCTT 554  
Db 481 GCGGCTTTGGGAAGAGACAGACTTATTCTAGATATTTCGCTGCTGCTGCTGCTT 535

## RESULT 7

US-09-535-459-610  
; Sequence 610, Application US/09535459  
; Publication No. US20030040615A1  
; GENERAL INFORMATION:  
; APPLICANT: Seilhamer, Jeffrey J.  
; APPLICANT: Deleane, Angelo M.  
; APPLICANT: Stuart, Susan G.  
; APPLICANT: Stuve, Laura L.  
; APPLICANT: Mullahy, Sara J.  
; APPLICANT: Naughton, Rebecca E.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE  
; FILE REFERENCE: PD-1014 CIP  
; CURRENT APPLICATION NUMBER: US/09/535,459  
; PRIOR FILING DATE: 2000-03-24  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2170  
; SOFTWARE: PERL Program  
; SEQ ID NO 610  
; LENGTH: 518  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01313696  
US-09-535-459-610

Query Match 59.9%; Score 482; DB 11; Length 518;  
Best Local Similarity 99.4%; Pred. No. 1.9e-137;  
Matches 515; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

Qy 20 GTGGCCGTGGGCGGGTATG-GGACTAGCTGGGCTGTCGCCCTGAGACGCTCAGCGGCG 78  
Db 1 GTGGCCGTGGGCGGGTATGGAAGTGGGCTGTCGCCCTGAGACGCTCAGCGGCG 60  
Qy 79 TATATATCTGCTGGTGGGCGGGCGGCTGCTGCGGCGAGCGGCGAGCAAGACGGTGCAT 138  
Db 61 TATATATCTGCTGGTGGGCGGGCGGCTGCTGCGGCGAGCGGCGAGCAAGACGGTGCAT 120  
Qy 139 GAAGAGAGTGGGCGGCTGTCGCGGGGTCGCGAGTTTCAAGAGAGCGGCTCAGGCAATGGC 198  
Db 121 GAAGAGAGTGGGCGGCTGTCGCGGGGTCGCGAGTTTCAAGAGAGCGGCTCAGGCAATGGC 180  
Qy 199 CCAATCAAGTGGGAGATCCATCCAGAGTGGAGTGTGTA-GGGAGAGCGAGGAA 257  
Db 181 CCAATCAAGTGGGAGATCCATCCAGAGTGGAGTGTGTAAGTGGGAGCGAGGAA 240  
Qy 258 CAAGTGAACCTGGCGAGCTGTTCAAGGCGAAGAGGCTGCTGTTTGGAGTCTCTGG 317  
Db 241 CAAGTGAACCTGGCGAGCTGTTCAAGGCGAAGAGGCTGCTGTTTGGAGTCTCTGG 300  
Qy 318 GGCCTTCAACCTGATGTTTCAAGACACACCTGCGAGGTTTGGAGAGAGCTGAGGC 377  
Db 301 GGCCTTCAACCTGATGTTTCAAGACACACCTGCGAGGTTTGGAGAGAGCTGAGGC 360  
Qy 378 TGTGAAGGCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGAC 437

Db 361 TGTGAAGGCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGAC 420  
Qy 438 TGGCGAGTGGGCGGAGCCCAAGGCGGAAAG-CAAGTGTGGCTCTGCTGATGCCA 496  
Db 421 TGGCGAGTGGGCGGAGCCCAAGGCGGAAAGGTTGGCTCTGCTGATGCCA 480  
Qy 497 CTGGGCGCTTTGGGAAGAGACAGACTTATTCTAGAT 534  
Db 481 CTGGGCGCTTTGGGAAGAGACAGACTTATTCTAGAT 518

## RESULT 8

US-09-535-459-616  
; Sequence 616, Application US/09535459  
; Publication No. US20030040615A1  
; GENERAL INFORMATION:  
; APPLICANT: Seilhamer, Jeffrey J.  
; APPLICANT: Deleane, Angelo M.  
; APPLICANT: Stuart, Susan G.  
; APPLICANT: Stuve, Laura L.  
; APPLICANT: Mullahy, Sara J.  
; APPLICANT: Naughton, Rebecca E.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE  
; FILE REFERENCE: PD-1014 CIP  
; CURRENT APPLICATION NUMBER: US/09/535,459  
; PRIOR FILING DATE: 2000-03-24  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2170  
; SOFTWARE: PERL Program  
; SEQ ID NO 616  
; LENGTH: 462  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01007235  
US-09-535-459-616

Query Match 57.4%; Score 462; DB 11; Length 462;  
Best Local Similarity 100.0%; Pred. No. 2.4e-131;  
Matches 462; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 GCGAGTGAAGTGGCGGCTGTCGCGGCTATGGAAGTGGGCTGTCGCCCTGAGAGC 68  
Db 1 GCGAGTGAAGTGGCGGCTGTCGCGGCTATGGAAGTGGGCTGTCGCCCTGAGAGC 60  
Qy 69 CTCAGCGGCTATATATCTGCTGCTGGGCGGCGGCTGCTGCGGCGAGCGGCGAGCAAG 128  
Db 61 CTCAGCGGCTATATATCTGCTGCTGGGCGGCGGCTGCTGCGGCGAGCGGCGAGCAAG 120  
Qy 129 AGGTGAGTGAAGAGTGGCGGCTGTCGCGGCGGCTGCGAGTTTCAAGAGCGGCTGTC 188  
Db 121 AGGTGAGTGAAGAGTGGCGGCTGTCGCGGCGGCTGCGAGTTTCAAGAGCGGCTGTC 180  
Qy 189 AGCCATGGCCCAATCAAGTGGGAGATCCATCCAGAGTGGAGTGTGTAAGAGGGA 248  
Db 181 AGCCATGGCCCAATCAAGTGGGAGATCCATCCAGAGTGGAGTGTGTAAGAGGGA 240  
Qy 249 GCGAGGAAACAGTGAACCTGCGAGGCTGTTCAAGGCGAAGAGGCTGCTGTTGG 308  
Db 241 GCGAGGAAACAGTGAACCTGCGAGGCTGTTCAAGGCGAAGAGGCTGCTGTTGG 300  
Qy 309 AGTTCCTGGGCGCTTCAACCCCTGAGTGTTCAGAGACACCTGCGAGGTTTGGAGCA 368  
Db 301 AGTTCCTGGGCGCTTCAACCCCTGAGTGTTCAGAGACACCTGCGAGGTTTGGAGCA 360  
Qy 369 GCGTGAAGCTTGAAGGCGAAGGAGTCCAGGTGGCTGCTGAGTGTAAATGATGC 428  
Db 361 GCGTGAAGCTTGAAGGCGAAGGAGTCCAGGTGGCTGCTGAGTGTAAATGATGC 420  
Qy 429 CTTTGTGACTGGCGAGTGGGCGGAGCCCAAGGCGGAAAG 470  
Db 421 CTTTGTGACTGGCGAGTGGGCGGAGCCCAAGGCGGAAAG 462

## RESULT 9

US-09-918-995-24646  
; Sequence 24646, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 24646  
; LENGTH: 495  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(495)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-24646

Query Match 54.6%; Score 439.8; DB 11; Length 495;  
Best Local Similarity 98.2%; Pred. No. 1.6e-124;  
Matches 444; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY	305	TTGAGATCTCGGGGCTTACCCCTGATGTTCCAGACACACCTCCAGGGTTTGTG	364
DB	44	TAGCANTAGCAAAAGGCTTCAACCCCTGATGTTCCAGACACACCTCCAGGGTTTGTG	103
QY	365	AGCAGGCTGAGGCTCTGAAGGCCCAAGGAGTCCAGGTGCTGTCTGAGTTTATG	424
DB	104	AGCAGGCTGAGGCTCTGAAGGCCCAAGGAGTCCAGGTGCTGTCTGAGTTTATG	163
QY	425	ATGCTTTTGTGACTGCGGAGTGGGCGGAGCCCAAGGCGGAAGGATTCGGCTCC	484
DB	164	ATGCTTTTGTGACTGCGGAGTGGGCGGAGCCCAAGGCGGAAGGATTCGGCTCC	223
QY	485	TGCTGATCCCACTGGGGGCTTTGGGAGAGAGACAGACTTATTACTAGATTCGCTGG	544
DB	224	TGCTGATCCCACTGGGGGCTTTGGGAGAGAGACAGACTTATTACTAGATTCGCTGG	283
QY	545	TGTCATCTTTGGGAGATCGAGTCTCAAGAGTTCTCATGTGTGTACAGGATGGATAG	604
DB	284	TGTCATCTTTGGGAGATCGAGTCTCAAGAGTTCTCATGTGTGTACAGGATGGATAG	343
QY	605	TGAAGGCTCTGAATGTGGAACCAATGAGCAGAGCTTCACTGAGGCTGGACCCATA	664
DB	344	TGAAGGCTCTGAATGTGGAACCAATGAGCAGAGCTTCACTGAGGCTGGACCCATA	403
QY	665	TCACTCAAGAGCTCTGAAGGCTTGGGCGGAGATTACTTCTCCAGCCCTCATCTCACC	724
DB	404	TCACTCAAGAGCTCTGAAGGCTTGGGCGGAGATTACTTCTCCAGCCCTCATCTCACC	463
QY	725	TGCCAGGCTGTGTCTGGGGGCTTGCAATTGG	756
DB	464	TGCCAGGCTGTGTCTGGGGGCTTGCAATTGG	495

## RESULT 10

US-09-535-459-608  
; Sequence 608, Application US/09535459  
; Publication No. US20030040615A1  
; GENERAL INFORMATION:  
; APPLICANT: Seilheimer, Jeffrey J.  
; APPLICANT: Deleage, Angelo M.  
; APPLICANT: Stuart, Susan G.  
; APPLICANT: Stuve, Laura L.

; APPLICANT: Mullahy, Sara J.  
; APPLICANT: Naughton, Rebecca E.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECUL-  
; FILE REFERENCE: PD-1014 CIP  
; CURRENT APPLICATION NUMBER: US/09/535,459  
; CURRENT FILING DATE: 2000-03-24  
; Prior application data removed - consult PAM or file wrapper  
; NUMBER OF SEQ ID NOS: 2170  
; SOFTWARE: PERL Program  
; SEQ ID NO 608  
; LENGTH: 550  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01127950  
US-09-535-459-608

Query Match 52.6%; Score 423.6; DB 11; Length 550;  
Best Local Similarity 94.7%; Pred. No. 1.5e-119;  
Matches 460; Conservative 0; Mismatches 24; Indels 2; Gaps 2;

QY	149	GGGCGTCTGGGGGCTGCGAGTTTCAGCAGAGCCGCTGAGCATGCCCCCATCAAG	208
DB	56	GGACACTTACGTGCAACGATGTTTCAGCAGAGCCGCTGAGCATGCCCCCATCAAG	115
QY	209	TGGAGATCCATCCAGCAGTGAAGTGTGGAAGGAGCCAGGAAACAAGTGACCC	268
DB	116	TGGAGATCCATCCAGCAGTGAAGTGTGGAAGGAGCCAGGAAACAAGTGAAAC	175
QY	269	TGGCAGCTGTTCAGAGGCAAGAGGTGTCTGTTGAGTTCCTGGGGCTTACCC	328
DB	176	TGGCAGCTGTTCAGAGGCAAGAGGTGTCTGTTGAGTTCCTGGGGCTTACCC	235
QY	329	CTGATGTTCCAGACACACTGCGAGGTTTGTGAGCAGGCTGAGGCTTGAAGCCA	388
DB	236	CTGATGTTCCAGACACACTGCGAGGTTTGTGAGCAGGCTGAGGCTTGAAGCCA	295
QY	389	AGGAGTCCAGGTGTGAGCTGTCTGAGTGTATGATGCTTTGTGACTGGGAGTGG	448
DB	296	AGGAGTCCAGGTGTGAGCTGTCTGAGTGTATGATGCTTTGTGACTGGGAGTGG	355
QY	449	GCCGAGCCCAAGGCGGAAAGGCAAGTTCCTGCTGATATCCACTGGGGCTTTG	508
DB	356	GCCGAGCCCAAGGCGGAAAGGCAAGTTCCTGCTGATATCCACTGGGGCTTTG	415
QY	509	GGAAGAGCAGCTTATTAATGATGATTCGCTGGTGCATCTTGGGAATCGACGTC	568
DB	416	GGAAGAGCAGCTTATTAATGATGATTCGCTGGTGCATCTTGGGAATCGACGTC	475
QY	569	TCA-AGAGTTCCTCATGTGTGTAAGATGAGTGGCATGGAAGCCCTGAATGGAACA	627
DB	476	TCA-AGAGTTCCTCATGTGTGTAAGATGAGTGGCATGGAAGCCCTGAATGGAACA	534
QY	628	GATGGC 633	
DB	535	GATGGC 540	

## RESULT 11

US-09-920-300A-204/c  
; Sequence 204, Application US/09920300A  
; Patent No. US20020136728A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Weigner, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secrest, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.547  
; CURRENT APPLICATION NUMBER: US/09/920,300A  
; CURRENT FILING DATE: 2001-07-31

```

RESULT 12
US-10-099-926-204/c
? Sequence 204, Application US/100999926
? Publication No. US2003016064A1
? GENERAL INFORMATION:
? APPLICANT: King, Gordon E.
? APPLICANT: Meagher, Madeleine Joy
? APPLICANT: Xu, Jiangchun
? APPLICANT: Secrist, Heather
? APPLICANT: Jiang, Yujun
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
? OF TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
? FILE REFERENCE: 210121.547C2
? CURRENT APPLICATION NUMBER: US/10/099,926
? CURRENT FILING DATE: 2002-03-17
? NUMBER OF SEQ ID NOS: 1982
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 204
? LENGTH: 421
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: 32, 339, 363

```

```

RESULT 13
US-10-033-528-204/C
; Sequence 204, Application US/10033528
; Publication No. US2002011971A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeline Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.547C1
; CURRENT APPLICATION NUMBER: US/10/033,528
; CURRENT FILING DATE: 2001-12-26
; NUMBER OF SEQ ID NOS: 1896
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 204
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 32, 339, 363
; OTHER INFORMATION: n = A,T,C or G
US-10-033-528-204

```

QY	218	277
CCATCCAGAGTGGAGTCTTTGAAGGGGAGCCAGGGAAACAAGGTGA	CTCGCAGAGC	
421	CCATCCAGAGTGGAGTCTTTGAAGGGGAGCCAGGGAAACAAGGTGA	CCTGGCAGANC 362

Oy	27	TGTTCAAGGGCAGAAGGGGTGCTGTTGAGGTTCTGGGGCTTCAACCCCTGGATGT	3337
Db	361	TGTTCAAGGGCAGAAGGGGTGCTGTTGAGGTTCTGGGGCTTCAACCCCTGGATGT	302
Oy	338	CCAAGACACACTTGCCAGGGTTTGTTGAGCAGGCTGAGGCTTGAAAGGCCAAGGAGTCC	337
Db	301	CCAAGACACACTTGCCAGGGTTTGTTGAGCAGGCTGAGGCTTGAAAGGCCAAGGAGTCC	242
Oy	398	AGGTGGTGGCTGTCTGAGGTGTTAATGATGCTTTGTGATCTGGCGAAGTGGGGCCGAGCCC	457
Db	241	AGGTGGTGGCTGTCTGAGGTGTTAATGATGCTTTGTGATCTGGCGAAGTGGGGCCGAGCCC	182
Oy	458	ACAAGGCGGAAGGCAAGGTTGGGCTCCTGGCTGATCCCACTGGGGCTTTTGGGAAGAGA	517
Db	181	ACAAGGCGGAAGGCAAGGTTGGGCTCCTGGCTGATCCCACTGGGGCTTTTGGGAAGAGA	122
Oy	518	CAGACTTATTACTAGATGATGCTGGTGCTGATCTCTTGGGAATGACGTCTCAAGAGT	577
Db	121	CAGACTTATTACTAGATGATGCTGGTGCTGATCTCTTGGGAATGACGTCTCAAGAGT	62
Oy	578	TCTTCATGGTGTCACGATGGCATGTGAAGCCCTGAATGTGGAACAGATGGCAAG	637
Db	61	TCTTCATGGTGTCACGATGGCATGTGAAGCCCTGAATGTGGAACAGATGGCAAG	2
Oy	638	G 638	
Db	1	G 1	
RESULT 14			
US-10-264-049-1299			
: Sequence 1299, Application US/10264049			
: Publication No. US20040005579A1			
: GENERAL INFORMATION:			
: APPLICANT: Birste et al.			
: TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies			
: FILE REFERENCE: PA133P1			
: CURRENT APPLICATION NUMBER: US/10/264,049			
: CURRENT FILING DATE: 2002-10-04			
: PRIOR APPLICATION NUMBER: PCT/US01/18569			
: PRIOR FILING DATE: 2001-06-07			
: PRIOR APPLICATION NUMBER: US 60/209,467			
: PRIOR FILING DATE: 2000-06-07			
: NUMBER OF SEQ ID NOS: 4360			
: SOFTWARE: PatentIn Ver. 3.1			
: SEQ ID NO 1299			
: LENGTH: 551			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (343)..(343)			
: OTHER INFORMATION: n equals a,t,g, or c			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (377)..(377)			
: OTHER INFORMATION: n equals a,t,g, or c			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (391)..(391)			
: OTHER INFORMATION: n equals a,t,g, or c			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (414)..(414)			
: OTHER INFORMATION: n equals a,t,g, or c			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (420)..(421)			
: OTHER INFORMATION: n equals a,t,g, or c			
: FEATURE:			
: NAME/KEY: misc_feature			
: LOCATION: (477)..(477)			

Query	Match	Best Local Similarity	51.8%	Score 417.2	DB 12	Length 551			
Matches	476	Conservative	0	Mismatches	26	Indels	8	Gaps	4
OTHER INFORMATION: n equals a,t,g, or c	OTHER INFORMATION: n equals a,t,g, or c								
FEATURE:	FEATURE:								
NAME/KEY: misc feature	NAME/KEY: misc feature								
LOCATION: (485)..(485)	LOCATION: (485)..(485)								
OTHER INFORMATION: n equals a,t,g, or c	OTHER INFORMATION: n equals a,t,g, or c								
FEATURE:	FEATURE:								
NAME/KEY: misc feature	NAME/KEY: misc feature								
LOCATION: (511)..(511)	LOCATION: (511)..(511)								
OTHER INFORMATION: n equals a,t,g, or c	OTHER INFORMATION: n equals a,t,g, or c								
FEATURE:	FEATURE:								
NAME/KEY: misc feature	NAME/KEY: misc feature								
LOCATION: (551)..(551)	LOCATION: (551)..(551)								
OTHER INFORMATION: n equals a,t,g, or c	OTHER INFORMATION: n equals a,t,g, or c								
US-10-264-049-1299	US-10-264-049-1299								
Query Match	51.8%	Score 417.2	DB 12	Length 551					
Best Local Similarity	93.3%	Pred. No. 1.4e-117							
Matches	476	Conservative	0	Mismatches	26	Indels	8	Gaps	4
28	GGGCGGGTATGGAGCTAGCTGCGGTGCGCCCTTGAGACCGCTGACGCGGCTATATATCTC	87							
2	GGGCGGGTATGGAGCTAGCTGCGGTGCGCCCTTGAGACCGCTGACGCGGCTATATATCTC	61							
88	GTCGCTGGGGCGGCGGCTCACTCTGCGGACCGCGACAGACGCTGACGTTGAAAGAGAG	147							
62	GTCGCTGGGGCGGCGGCTCACTCTGCGGACCGCGACAGACGCTGACGTTGAAAGAGAG	121							
148	TGGGCGCTCTGCGGGGGTCCCGAGTTTACAGACGCGCTGACGCTGAGCCCTCAATCAAG	207							
122	TGGGCGCTCTGCGGGGGTCCCGAGTTTACAGACGCGCTGACGCTGAGCCCTCAATCAAG	181							
208	GTCGAGATGTCATCCAGCAGTGAAGTCTTGAAGGGAGCCAGGGAACAAGTGAAC	267							
182	GTCGAGATGTCATCCAGCAGTGAAGTCTTGAAGGGAGCCAGGGAACAAGTGAAC	241							
268	CTGCGAGAGCTGTTCAAGGGGCAAGAGGCTGTCTGTTGAGATTCTGCGGCTTCAAC	327							
242	CTGCGAGAGCTGTTCAAGGGGCAAGAGGCTGTCTGTTGAGATTCTGCGGCTTCAAC	301							
328	CCTGAGATTTCCAAAGACACACACTCTCCAGGCTTTGTGAGACGAGCTGAGAGCTCTGAAGGCC	387							
302	CTGAGATGTTCCAAAGACACACACTCTCCAGGCTTTGTGAGACGAGCTGAGAGCTCTGAAGGCC	361							
388	AAGGAGTCCAGGTGTGTGCTGTCTGAGTGTATGATGCTTGTGTACTGCGAGGTG	447							
362	AAGGAGTCCAGGTGTGTGCTGTCTGAGTGTATGATGCTTGTGTACTGCGAGGTG	419							
448	GGCGAGCCCAAGCGGGAAGGCAAGGCTCGGCTCTGCTGATCCCACTGGGGCTTT	507							
420	NNC--GACCCCAAGGCGGAAGGCAAGG--TCGGCTTCTGCTGATCCACTGGGG--CTT	473							
508	GGGAAGGACACACTTATCTAGATGAT	537							
474	TGGAAGACGACCTTATATCTAGATGAT	503							
RESULT 15									
US-09-918-995-31713									
Sequence 31713, Application US/09918995									
Publication No. US20030073623A1									
GENERAL INFORMATION:									
APPLICANT: Hyseq, Inc.									
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED									
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES									
FILE REFERENCE: 20411-756									
CURRENT APPLICATION NUMBER: US/09/918,995									
CURRENT FILING DATE: 2001-07-30									
PRIOR APPLICATION NUMBER: US/09/235,076									
PRIOR FILING DATE: 1999-01-20									



```
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31713
; LENGTH: 493
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(493)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-31713
```

```
Query Match      51.6%; Score 415.2; DB 11; Length 493;
Best Local Similarity 97.3%; Pred. No. 5.5e-117;
Matches 431; Conservative 0; Mismatches 11; Indels 1; Gaps 1;
```

```
QY 108 GTCGTGGGCGAGGGCGAGCAAGAGCGTGCAGTGAAGAGAGTGGGCGCTCTGGCGGGGTCCG 167
   |||||||
Db  51 GTCGTGGGCGAGGGCGAGCAAGAGCGTGCAGTGAAGAGAGTGGGCGCTCTGGCGGGGTCCG 110
   |||||||
QY 168 CAGTTTCAGAGAGCGCGTGCAGCCATGGCCCCCAATCAAGGTGGAGATGCCATCCAGC 227
   |||||||
Db  111 CAGTTTCAGAGAGCGCGTGCAGCCATGGCCCCCAATCAAGGTGGAGATGCCATCCAGC 170
   |||||||
QY 228 AGTGAAGGTGTTGAAGGGGAGCGAGGAACAAGTGAACCTGGCAGAGCTGTTCAAGGG 287
   |||||||
Db  171 AGTGAAGGTGTTGAAGGGGAGCGAGGAACAAGTGAACCTGGCAGAGCTGTTCAAGGG 230
   |||||||
QY 288 CAGAAAGGCGTGTGCTGTTGAGATTCTTGAGGCTTCAACCCTGGATGTTCCAGACACA 347
   |||||||
Db  231 CAGAAAGGCGTGTGCTGTTGAGATTCTTGAGGCTTCAACCCTGGATGTTCCAGACACA 290
   |||||||
QY 348 CCGCCAGGGGTTGTGAGCAGGCTGAGGCTGAAAGGCCAAGGGAGTCCAGGTGGTGGC 407
   |||||||
Db  291 CCGCCAGGGGTTGTGAGCAGGCTGAGGCTGTTGAGGCCAAGGGAGTCCAGGTGGTGGC 350
   |||||||
QY 408 CTGCTGAGGTGTTAATGATGCCCTTTGTGACTGGCGAGTGGGGCCGAGCCACAGGCGGA 467
   |||||||
Db  351 CTGCTGAGGTGTTAATGATGCCCTTTGTGACTGTCGAGTGGGGCCGAGCCACAGGCGGA 410
   |||||||
QY 468 AGGCAAGGTTGGGCTCTGAGCTGATCCAC-TGGGGCCTTTGGGAGAGAGACACTTAT 526
   |||||||
Db  411 AAGGCGAGTTCGGCTCTGAGCTGATCCACTTGGGGCCCNATGAGAGAGACACTTAT 470
   |||||||
QY 527 TACTAGATGATTCGCTGTGTC 549
   |||||||
Db  471 TACTAGATGATTCGCTGTGTC 493
   |||||||
```

Search completed: January 16, 2004, 01:08:06  
Job time : 345 sec

**THIS PAGE BLANK (USPTO)**